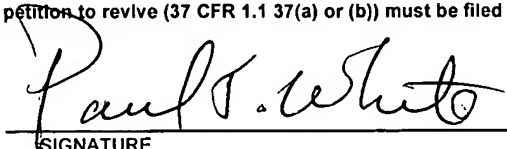


TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER NREL 01-14 U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/552102
INTERNATIONAL APPLICATION NO. PCT/US01/49921	INTERNATIONAL FILING DATE 08 November 2001	PRIORITY DATE CLAIMED
TITLE OF INVENTION REACTIVE CO-DOPING OF GaAlInP COMPOUND SEMICONDUCTORS		
APPLICANT(S) FOR DO/EO/US MARK COOPER HANNA AND ROBERT REEDY		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information:		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/552102		INTERNATIONAL APPLICATION NO. PCT/US01/49921		ATTORNEY'S DOCKET NUMBER NREL 01-14	
21. The following fees are submitted:				Applicant use	Office use only
<input checked="" type="checkbox"/> a) Basic national fee..... \$300.00				\$ 300.00	
<input checked="" type="checkbox"/> b) Examination fee..... \$200.00				\$ 200.00	
<input checked="" type="checkbox"/> c) Search fee..... \$500.00				\$ 500.00	
TOTAL OF ABOVE CALCULATIONS = \$1000.00				\$ 1000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250.00	\$ 0	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	28 - 20 =	8	x \$50.00	\$ 400.00	
Independent claims	3 - 3 =	0	x \$200.00	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 1400.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$ 700.00	
SUBTOTAL=				\$ 700.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$ 700.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
TOTAL FEES ENCLOSED =				\$ 700.00	
Amount to be refunded:					\$
Amount to be charged					\$
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>14-0460</u> in the amount of \$ <u>700.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>14-0460</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.1 37(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Paul J. White NREL 1617 Cole Blvd. Golden, CO 80401			<div style="text-align: center;">  SIGNATURE PAUL J. WHITE NAME 30,436 REGISTRATION NUMBER </div>		

10/552102
JC06 Rec'd PCT/PTO 03 OCT 2005

The PTO did not receive the following
listed item(s)

NO POST CARD

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

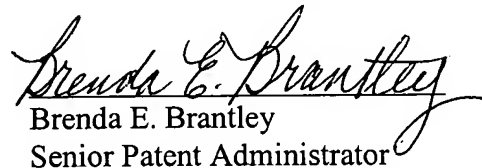
Applicant(s):	Mark Cooper Hanna et al.)	
)	Examiner: Not Yet Accorded
Serial No.:	PCT/US01/49921)	
)	Group Art: Not Yet Accorded
Filed:	November 8, 2001)	
)	Atty. Dkt. No. NREL 01-14
Title:	Reactive Co-Doping of GaAlInP)	
	Compound Semiconductors)	

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8

I hereby certify that the following attached items:

- Petition for Revival of an International Application for Patent Designating the U.S. Abandoned Unintentionally Under 37 CFR § 1.137(b) [2 pages]
- Reply to Petition for Revival of Application [3 pages]
- Statement
- Transmittal Letter to the U.S. Designated/Elected Office [2 pages]
- Information Disclosure Statement [2 pages]
- Copy of Decision, dated 12 August 2005 [2 pages]
- Copy of PCT Inventors Declaration
- Notice of Incomplete NonProvisional Application
- Copy of Postcard Receipt , dated May 7, 2004
- Postcard Receipt

are being deposited in the United States Postal Service as first class mail, postage pre-paid, in an envelope addressed to: Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, MS Issue Fee, Alexandria, Va 22313-1450 on this 30th day of September 2005.


Brenda E. Brantley
Senior Patent Administrator

National Renewable Energy Laboratory
1617 Cole Boulevard
Golden, CO 80401
303/384-7572
303/384-4799 (fax)

10/552102

JC12 Rec'd PCT/CT 03 OCT 2005

EL927021128US

NREL 01-14

22387 U.S. PTO
10/844463

The stamp of the U.S. Patent & Trademark Office hereon will
acknowledge receipt of the following:



- Information Disclosure Statement, Form 1449 + Cited References
- Declaration for Utility or Design Patent Application [2 pages]
- Recordation Cover Sheet + Assignment [4 pages]
- Transmittal Letter to the United States Designated/Elected Office
Concerning a Filing Under 35 USC 371 [2 pages]
- Utility Patent Application Transmittal

Received

Re: Inventors: Mark Cooper Hanna and Robert Reedy

Title: Reactive Co-Doping of GaAlInP Compound
Semiconductors

MAY 20 2004

Legal Office

IN THE U.S. PATENT AND TRADEMARK OFFICE

Inventor(s): Mark W. Wanlass et al.)
)
International (PCT) Application No.:)
PCT/US01/49921)
)
Filed: November 8, 2001)
)
Title: Reactive Co-Doping of GaAlInP)
Compound Semiconductors) Atty Dkt. No.: NREL 01-14

STATEMENT

Commissioner for Patents
P.O. Box 1450
MS/PCT
Alexandria, VA 22313-1450

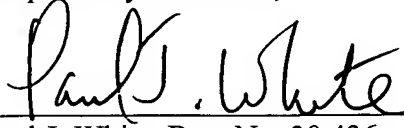
Dear Sir:

The undersigned declares that the confusion created by the submittal of two transmittal forms at the original filing was unintentional.

The undersigned declares that all statements made herein are true and correct, and that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: September 30, 2005.

Respectfully submitted,


Paul J. White, Reg. No. 30,436
Attorney for Applicants

JC12 Rec'd PCT/PTC 03 OCT 2005



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/844,463	05/07/2004	Mark Cooper Hanna	NREL01-14

CONFIRMATION NO. 6280

23712

PAUL J WHITE, SENIOR COUNSEL
NATIONAL RENEWABLE ENERGY LABORATORY (NREL)
1617 COLE BOULEVARD
GOLDEN, CO 80401-3393

FORMALITIES LETTER



OC000000015461050

Received

MAR 21 2005

Legal Office

Date Mailed: 03/15/2005

NOTICE OF INCOMPLETE NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

A filing date has NOT been accorded to the above-identified application papers for the reason(s) indicated below.

All of the items noted below and a newly executed oath or declaration covering the items must be submitted within **TWO MONTHS** of the date of this Notice, unless otherwise indicated, or proceedings on the application will be terminated (37 CFR 1.53(e)). Replies should be mailed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

The filing date will be the date of receipt of all items required below, unless otherwise indicated. Any assertions that the item(s) required below were submitted, or are not necessary for a filing date, must be by way of petition directed to the attention of the Office of Petitions accompanied by the \$400.00 petition fee (37 CFR 1.17(f)). If the petition states that the application is entitled to a filing date, a request for a refund of the petition fee may be included in the petition. Petitions should be mailed to: Mail Stop Petitions, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

- The specification is missing.
- The specification does not include at least one claim.
A complete specification as prescribed by 35 U.S.C. 112 is required.
- The statutory basic filing fee is missing.
Applicant must submit \$ 395 to complete the basic filing fee for a small entity.

SUMMARY OF FEES DUE:

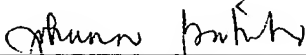
Total additional fee(s) required for this application is \$395 for a Small Entity

- \$395 Statutory basic filing fee.

Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450

Alexandria VA 22313-1450

A copy of this notice MUST be returned with the reply.



Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY